1-3. (CANCELED)

4. (CURRENTLY AMENDED) A wireless LAN (Local Area Network) system to be connected to a bi-directional CATV (CAble Tele-Vision) system, comprising an access point capable of being accessed from at least one wireless terminal via a wireless access section,

wherein the bi-directional CATV system uses a first frequency band and a second frequency band for transmitting upward signals via a cable transmission path;

the bi-directional CATV system comprises a wireless transmission section for wireless transmitting of signals using a wireless transmission frequency band in [[a]] the cable transmission path between a center equipment of the bi-directional CATV system and the access point;

the wireless access section of the wireless LAN system includes a LAN frequency band distinct from the wireless transmission frequency band; and

the LAN frequency band is used for wireless transmitting of signals between the at least one wireless terminal and the access point.

5. (CURRENTLY AMENDED) The wireless LAN system according to claim 4, wherein the bi-directional CATV system further comprises a downward signal frequency band used for transmitting downward signals via the cable transmission path;

wherein one of the first frequency band and the second frequency band is higher than the downward signal ~~transmission~~ frequency band; and

the other of the first frequency band and the second frequency band is lower than the downward signal frequency band.

6. (CURRENTLY AMENDED) A wireless LAN system to be connected to a bi-directional CATV system, comprising a remote access point capable of being accessed from at least one first wireless terminal via a wireless access section;

~~wherein a first wired LAN system is connected to the bi-directional CATV system via a transmission line of the bi-directional CATV system;~~

the bi-directional CATV system uses a first frequency band and a second frequency band for transmitting upward signals via a cable transmission path;

wherein the wireless LAN system is connected to the cable transmission path of the CATV system via at least a modem:

the ~~first wired~~ wireless LAN system includes a wireless transmission section for wireless transmitting of signals using a wireless transmission frequency band ~~in a transmission path between the first wired LAN system and the remote access point~~ between two points in the wireless LAN system;

the wireless LAN system includes a LAN frequency band distinct from the wireless transmission frequency band; and

the LAN frequency band is used for wireless transmitting of signals between the at least one first wireless terminal and the remote access point.

7. (CURRENTLY AMENDED) The wireless LAN system according to claim 6, wherein the bi-directional CATV system further comprises a downward signal frequency band used for transmitting downward signals via the cable transmission path;

one of the first frequency band and the second frequency band is higher than the downward signal ~~transmission~~ frequency band; and

the other of the first frequency band and the second frequency band is lower than the downward signal frequency band.

8. (CANCELED)

9. (CURRENTLY AMENDED) The wireless LAN system according to claim 7, wherein a second access point is connected to the ~~first wired~~ wireless LAN system;

the second access point is capable of being accessed from at least one second wireless terminal; and

the LAN frequency band is used for wireless transmitting of signals between the at least one second wireless terminal and the second access point.

10. (CURRENTLY AMENDED) A wireless LAN system, to be connected to a bi-directional CATV system, comprising an access point capable of being accessed from at least one wireless terminal via a wireless access section;

wherein the bi-directional CATV system uses a first frequency band and a second frequency band for transmitting upward signals via a cable transmission path;

the CATV system comprises a wireless transmission section in an outside wireless transmission path to provide wireless communication using a wireless transmission frequency band in a transmission path ~~between the access point and a branching device for branching a lead-in wire from a transmission line of said bi-directional CATV system~~ located proximate to the wireless LAN system so as to

potentially cause interference to the wireless access section of the wireless LAN system;

the wireless LAN system includes a LAN frequency band distinct from the wireless transmission frequency band; and

the LAN frequency band is used for wireless transmitting of signals between the at least one wireless terminal and the access point via the wireless access section.

11. (CURRENTLY AMENDED) The wireless LAN system according to claim 10, wherein the bi-directional CATV system further comprises a downward signal frequency band used for transmitting downward signals via the cable transmission path; and

one of the first frequency band and the second frequency band is higher than the downward signal ~~transmission~~ frequency band; and

the other of the first frequency band and the second frequency band is lower than the downward signal frequency band.

12. (CANCELED)

13. (NEW) A LAN system comprising a bi-directional CATV system, wherein

the CATV system comprises a center equipment, and

a wireless terminal communicates with the center equipment via a cable transmission path and a wireless access section,

wherein the cable transmission path transmits upward signals using both a first upward frequency band and a second upward frequency band, and downward signals using a downward frequency band,

wherein one of the first upward frequency band and the second upward frequency band is higher than the downward frequency band, and

wherein an other one of the first upward frequency band and the second upward frequency band is lower than the downward frequency band, and

wherein the wireless access section transmits signals at a wireless access frequency band distinct from the first upward frequency band, the second upward frequency band, and the downward frequency band.

14. (NEW) The LAN system according to claim 13, wherein the wireless terminal communicates with the center equipment further via a wireless transmission section, and

wherein the wireless transmission section transmits signals at a wireless transmission frequency band distinct from the wireless access frequency band, the first upward frequency band, the second upward frequency band, and the downward frequency band.

15. (NEW) The LAN system according to claim 14, wherein the wireless transmission section comprises an antenna and a transmitter/receiver on each corresponding end of the wireless transmission section.

16. (NEW) The wireless LAN system according to claim 9, wherein the remote access point is connected to a first end of the wireless transmission section and the at least one second wireless terminal is communicatively connected to a second end of the wireless transmission section.